

# BUSH & WILTON

**TAPERED BORE ROTARY AIRLOCK**



**MULTIPLEX RANGE MODEL MSR 'T' SERIES**

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# BUSH & WILTON

THE INNOVATIVE VALVE SPECIALISTS

# TAPERED BORE ROTARY AIRLOCK MULTIPLEX RANGE - MODEL MSR 'T'

## INTRODUCTION

Bush & Wilton Rotary Valves are designed for use under gravity, pressure and vacuum conditions.

They are suitable for metering a wide range of dry solids, granular, pelleted and powdered type materials from the outlets of silos, hopper, cyclones, mixers, weighers etc.

Rotary valves have to perform under diverse operating conditions and since no single design of valve can economically perform all duties Bush & Wilton have developed many rotary valve variants.

These are, as outlined on our introductory leaflet, which in standard form are suitable for applications where pressure differentials do not exceed 20 psi, heavy duty versions of the valve are available for use with difficult materials and higher pressures. See our 'F'U' leaflet.

The MSR'T' tapered rotor range for pressure differentials not greater than 8 psi and the dust collection valve range specifically developed for discharging dust collectors and cyclones, etc. at a max. of 4 psi.

The standard taper rotor is of the closed-end type with matching bore in the valve body.

The valve is suitable for handling the majority of dry powdered and granular type materials in its standard form.

The radial running clearances between rotor and body are simple to adjust and can be set to suit the product being metered.

When there is a differential pressure across the valve, such as in pneumatic conveying systems, gas losses through the valve can be minimised.

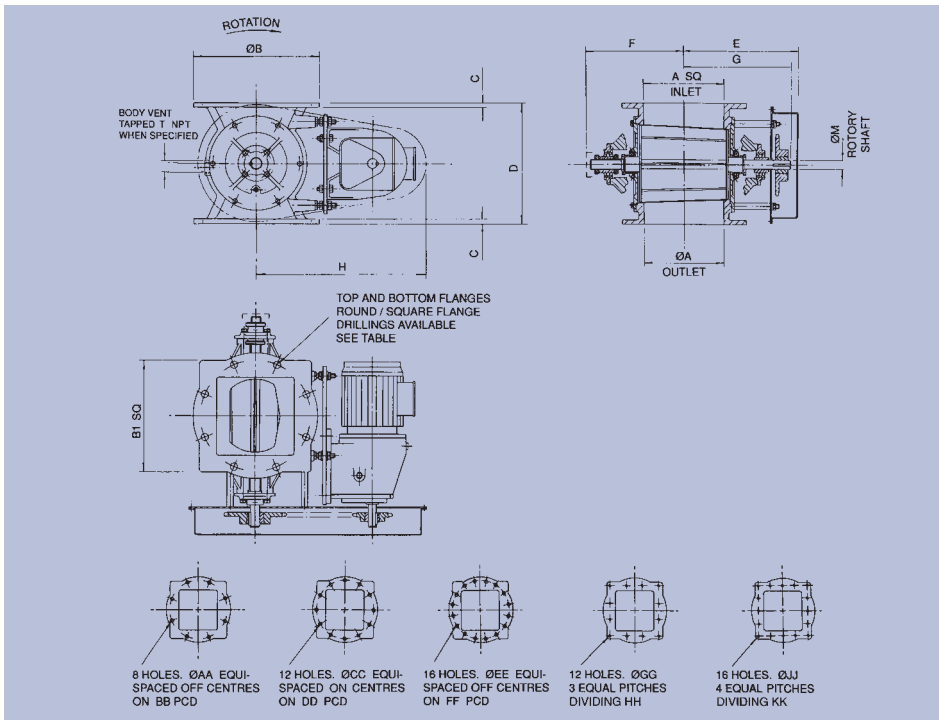
When the product being metered is at a higher or lower temperature than ambient, clearances can be set to compensate for differential expansion between the valve body and rotor. Re-assembly after routine maintenance is simple since the rotor need only be pushed into the valve body, the end covers and seals are then fitted. Radial clearances are set

by withdrawing the rotor using the locking collars.

These collars are tightened each side of the relevant outboard bearing once the setting has been achieved.



Tapered Rotary Valve



## SR SERIES

The Bush & Wilton 'SR' range of Rotary Valves has been designed so that they can, dependant on flange drilling, be installed on either square or round flanges without transitions.

The 'SR' valve is manufactured in six sizes 6", 8", 10", 12", 14" and 16".

## OPTIONS

- Quick Release Rotors
- Direct Coupled Drives
- Air Purge Glands
- Body Vents
- Vent Boxes
- Dropout Boxes
- V.S. Drives
- Speed Switches
- Flameproof Motors
- Shear Plate Deflectors
- Electroproof Nickel Plating
- Tungsten Carbide Internals etc.

Valve Size	ØA	ØB	B1sq	C	D	E	F	H	T	AA	BB	ASA150				SQUARE				Wt LBS	HP
												CC	DD	EE	FF	GG	HH	JJ	KK		
MSRT15	6	11	9 1/2	1/2	10 3/4	11 3/4	9 1/2	15	3/4 NPT	7/8	9 1/2					9/16	8 1/4			176	1/2
MSRT20	8	13 1/2	11 1/2	1/2	12 5/8	13	10 3/8	16	3/4 NPT	7/8	11 3/4					9/16	10			220	1/2
MSRT25	10	16	14 1/4	1/2	15	15	13	19	1 NPT			1	14 1/4			9/16	12 1/2			320	1/2
MSRT30	12	19	16 1/2	1/2	16 5/8	15 1/2	13 1/2	19 1/2	1 NPT			1	17					9/16	14 1/2	430	1
MSRT35	14	21	18	3/4	19 3/4	16 1/2	14	23	1/2 NPT			1 3/16	18 3/4					9/16	16 1/2	585	1
MSRT40	16	23 1/2	20 3/4	7/8	21 5/8	17 1/2	15 1/4	24 5/8	1/2 NPT					1 3/16	21 1/4			9/16	18 3/4	740	1 1/2

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